

# PRODUCT SPECIFICATIONS FOR 836



## ENGINE - TIER 4 FINAL/EU STAGE V

<b>Gross Power (SAE J1995:2014)</b>	419 kW
<b>Net Power (SAE J1349:2011)</b>	370 kW
<b>Net Power (ISO 9249:2007)</b>	374 kW
<b>Engine Model</b>	C18
<b>Emissions</b>	U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V and Japan 2014
<b>Rated Speed</b>	1900 r/min
<b>Torque Rise</b>	52
<b>Bore</b>	145 mm
<b>Stroke</b>	183 mm
<b>Displacement</b>	18.1 l
<b>High Idle Speed</b>	2120 r/min
<b>Low Idle Speed</b>	750 r/min
<b>Maximum Altitude without Derating</b>	2286 m
<b>Note</b>	*Net power advertised is the power available at the engine flywheel when the engine is equipped with a fan, air cleaner, clean emissions module and alternator.

## OPERATING SPECIFICATIONS

Maximum Operating Weight (Tier 3/Stage IIIA equivalent)

56982 kg

## TRANSMISSION

Transmission Type	Planetary - Powershift - ECPC
Direct Drive - Forward 1	7 km/h
Direct Drive - Forward 2	12.6 km/h
Direct Drive - Reverse 1	7.4 km/h
Direct Drive - Reverse 2	13.2 km/h

## HYDRAULIC SYSTEM - STEERING

Steering System - Circuit	Flow Sharing Implement; Pilot, load sensing
Steering System - Pump	Piston – Variable Displacement
Relief Valve Setting - Steering	24100 kPa
Total Steering Angle	86
Steering Cycle Times - High Idle	3.9 s
Steering Cycle Times - Low Idle	6.4 s

## SERVICE REFILL CAPACITIES

Fuel Tank	793 l
Diesel Exhaust Fluid Tank*	32.8 l
Cooling Systems - Tier 4 Final/EU Stage V	151.5 l
Cooling System - Tier 3/Stage IIIA Equivalent	141.1 l
Engine Crankcase	60 l

Transmission	83 l
Differential - Final Drives - Front	186 l
Differential - Final Drives - Rear	190 l
Hydraulic System - Implement/Steering	175 l
Hydraulic Tank Only	103 l

## AXLES

Front	Planetary – Fixed
Rear	Planetary – Oscillating
Oscillation Angle	±6°

## BRAKING SYSTEM

Service Brakes	Multi Disc Wet (Enclosed) 2 WHL
Parking Brake	Spring Applied, Hydraulic Released

## SOUND PERFORMANCE - TIER 4 FINAL/EU STAGE V - STANDARD

Operator Sound Level (ISO 6396)	72 dB(A)
Machine Sound Level (ISO 6395)	111 dB(A)

## SOUND PERFORMANCE - TIER 4 FINAL/EU STAGE V - SUPPRESSION

Operator Sound Level (ISO 6396)	72 dB(A)
Machine Sound Level (ISO 6395)	109 dB(A)

## DIMENSIONS (APPROXIMATE)

Height to Top of Beacon	4634 mm
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<b>Height to Top of Air Conditioning Condenser</b>	4626 mm
<b>Height - Cab Roof</b>	4285 mm
<b>Height - Top of Exhaust Pipe</b>	4606 mm
<b>Height - Top of Hood</b>	3430 mm
<b>Ground Clearance to Hitch</b>	639 mm
<b>Ground Clearance to Bottom of Bumper</b>	965 mm
<b>Centerline of Rear Axle to Rear Compactor Guard</b>	3454 mm
<b>Hitch to Centerline of Front Axle</b>	2275 mm
<b>Wheel Base</b>	4550 mm
<b>Width over Front Striker Bars</b>	3930 mm
<b>Width over Rear Striker Bars</b>	3933 mm
<b>Width over Platform</b>	3196 mm
<b>Width over Drums</b>	4280 mm

## **STRAIGHT BLADE**

<b>Capacity</b>	19.3 m <sup>3</sup>
<b>Height</b>	2239 mm
<b>Height of Cutting Edge</b>	1125 mm

## **SEMI U-BLADE**

<b>Capacity</b>	22.4 m <sup>3</sup>
<b>Height</b>	2239 mm

# U-BLADE

Capacity	25.5 m <sup>3</sup>
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Height	2255 mm
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## 836 STANDARD EQUIPMENT

### NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

### POWER TRAIN

Advanced Productivity Electronic Control Shifting (APECS)

Air to air aftercooler

Brakes, fully hydraulic, enclosed, wet multiple disc brakes

Cat Clean Emission Module, insulated (Tier 4 Final/Stage V/Korea Stage V and Japan 2014)

Electro hydraulic parking brake

Engine, Cat C18: – Tier 4 Final/Stage V/Korea Stage V and Japan 2014 – Tier 3/Stage IIIA equivalent

Fuel priming pump, electric

Fuel to air cooler

Ground level engine shutoff

Guard (3 piece) transmission

Heat shield, turbo and exhaust manifold

Hydraulically driven demand fan

Integrated braking

Radiator, Aluminum Modular Radiator (AMR)

Separated cooling system

Starting aid (ether) automatic

Throttle lock

Torque converter with lockup clutch (LUC)

Turbine precleaner, engine air intake

Transmission, planetary, with 2F/2R speed range control

Underhood ventilation system

### ELECTRICAL

Alarm, back-up

Alternator, 150 amp

Batteries, maintenance-free (4-1,000 CCA)

Converter, 10-15 amp, 24V to 12V

Lighting system, halogen (front and rear)

Lighting, access stairway

Starter, electric (heavy duty)

Starter lockout (ground level)

Starting receptacle for emergency start

Transmission lockout (ground level)

## **OPERATOR ENVIRONMENT**

Air conditioner w/roof-mounted condenser

Cab, sound-suppressed and pressurized

Internal four-post rollover protective structure (ROPS/FOPS)

Radio ready for (entertainment) includes antenna, speakers and converter (12V, 10-15 amp) 12V power port for mobile phone or laptop connection

Camera, rear vision

Coat and hard hat hooks

Flip-up armrest

Heater and defroster

Horn, electric

Hydraulic controls (floor mounted)

Implement hydraulic lockout

Laminated glass

Light, (dome) cab

Lunchbox and beverage holders

Instrumentation, Gauges: - DEF fluid level (Tier 4 Final/Stage IV) - Hydraulic oil temperature -

Speedometer/tachometer - Torque converter temperature

Instrumentation, Warning Indicators: - Action alert system, three category - Axle/brake oil temp, front -

Brake oil pressure - Electrical system, low voltage - Engine failure malfunction alert and action lamp

Mirrors, rearview (externally mounted)

Parking brake status

Radio, CB (ready)

Seat, Cat Comfort, (cloth) air suspension

Seat belt, retractable, 76 mm (3") wide

STIC Control System with steering lock

Sun visor, front

Glass (window) - rubber mounted glass

Transmission gear (indicator)

Vital Information Management System (VIMS) with graphical information display: external data port, customizable operator profiles

Wet-arm wipers/washers (front and rear)

Intermittent wipers (front and rear)

## **WHEELS**

Wheels, paddle, plus, combination, and diamond wheel configurations

## **GUARDS**

Guards, axle (front and rear)

Guards, cab window

Guards, crankcase and power train, hydraulically powered

Guards, rear fan and grill

## **BLADES**

Bulldozer arrangement is included in the standard equipment. Bulldozer blades are optional.

## **FLUIDS**

Antifreeze, premixed 50% concentration of extended life coolant with freeze protection to -34° C (-29° F)

## **OTHER STANDARD EQUIPMENT**

Auto Blade Positioner (ABP)

Demand fan/swing out (hydraulic reversible)

Doors, service access locking

Ecology drains for engine, radiator, hydraulic tank

Electronic clutch pressure control and remote mounted pressure taps

Emergency platform egress

Engine, crankcase, 500 hour interval with CJ-4 oil

Fuel tank, 793 L (210 gal)

Hitch, drawbar with pin

Hoses, Cat XT™

Hydraulic oil cooler

Hydraulic, steering and brake filtration/screening system

Oil sampling valves

Product Link™ - Cellular

Stairways, fixed-L/R (rear access)

Steering, load sensing

Vandalism protection caplocks

Venturi stack

## **836 OPTIONAL EQUIPMENT**

### **NOTE**

Standard and optional equipment may vary. Consult your Cat dealer for details.

### **VARIOUS BLADES:**

Straight blade

U-blade

Semi U-blade

### **VARIOUS TIP AND WHEEL ARRANGEMENTS:**

Paddle

Plus

Diamond